## STUDY ABROAD AT MONASH UNIVERSITY ELECTRICAL CONCENTRATION

- The table below shows the modified curriculum for the junior and senior years. Shaded cells show the changes in the course sequence.
- In this recommended course of study, the study abroad semester is the first semester of the junior year.
- The standard curriculum is used for the freshman and sophomore years and for the second semester of the senior year.
- Equivalents of EEN307, IEN 311, and BME335, and two PS/HA electives, are taken at Monash University. All other courses remain the same, but are taken in a slightly different sequence.

Junior Ye	ar:				
ECE2031	Circuits and control (Equivalent of EEN 307)	6	EEN304	Logic Design	3
STA1010	Statistical Methods for Science (Equivalent of IEN 311)	6	EEN305	Electronics 1	3
MTE2548	Biomaterials I (Equivalent of BME335)	6	BME311	Matlab for Biomedical Engineers	1
	People and Society Elective*	6	BME330	Foundations of Medical Imaging	3
	Humanities and Arts Elective*	6	BME 375	Biomechanics I	3
			BME401	Senior Project I	1
			BME440	Biomedical Measurements	4
	UM Equivalent Total	15		Total	18

Senior Year:					
BME402	Senior Project II	2	BME403	Senior Project III	3
BME 480	Biomedical Instrumentation	3	BME 540	Computer Based Medical Instrumentation	3
BME 570	Introduction to Biosignal Processing	3	BME 541	Medical Electronics Systems Laboratory	2
BME 507	LabView Applications for Biomedical Engineering	1	BME 560	Biomedical Transport Phenomena	3
	Technical Elective	3		Technical Elective	3
EEN 315	Digital Design Laboratory	1		Advanced PS/HA Elective	3
	Advanced PS/HA Elective	3			
	Total   16   Total   17				

<sup>\*</sup> To be selected from approved lists.

## STUDY ABROAD AT MONASH UNIVERSITY MECHANICAL CONCENTRATION

- The table below shows the modified curriculum for the junior and senior years. Shaded cells show the changes in the course sequence.
- In this recommended course of study, the study abroad semester is the first semester of the junior year.
- The standard curriculum is used for the freshman and sophomore years and for the second semester of the senior year.
- Equivalents of EEN307, IEN 311 and BME335, and two PS/HA electives, are taken at Monash University. All other courses remain the same, but are taken in a slightly different sequence.

Junior Year:					
ECE2031	Circuits and control (Equivalent of EEN 307)	6	MAE 207	Mechanics of Solids II	3
STA1010	Statistical Methods for Science (Equivalent of IEN 311)	6	BME 330	Foundations of Medical Imaging	3
MTE2548	Biomaterials I (Equivalent of BME335)	6	BME 375	Biomechanics I	3
	People and Society Elective*	6	BME 440	Biomedical measurements	4
	Humanities and Arts Elective*	6	BME 460	Physiologic Fluid Mechanics	3
			BME 311	Matlab for Biomedical Engineers	1
			BME 401	Senior Project I	1
	UM Equivalent Total	15		Total	18

Senior Year:						
BME 402	Senior Project II	2	BME 403	Senior Project III	3	
BME480	Biomedical Instrumentation	3	BME 560	Biomedical Transport Phenomena	3	
BME 570	Intro. to Biosignal Processing	3	BME 575	Biomechanics II	3	
	Technical Elective	3	BME 587	Finite Element Analysis for	3	
				Engineers		
BME 506	ProEngineer Applications for BME	1		Technical Elective	3	
	Advanced PS/HA Elective	3		Advanced PS/HA Elective	3	
	Total			Total	18	

<sup>\*</sup> To be selected from approved lists.

## STUDY ABROAD AT MONASH UNIVERSITY PREMED CONCENTRATION

- The table below shows the modified curriculum for the sophomore, junior, and senior years. Shaded cells show the changes in the course sequence.
- In this recommended course of study, the study abroad semester is the first semester of the junior year.
- The standard curriculum is used for the freshman year, the first semester of the sophomore year, and the second semester of the senior year.
- Equivalents of EEN307, IEN 311 and BME335, and two PS/HA electives, are taken at Monash University. All other courses remain the same, but are taken in a slightly different sequence.

Sophomore Year:					
MTH 311	Ordinary Differential Equations	3	BIL 215	Systemic Human Physiology	3
CHM 112	Principles of Chemistry II	3	BIL 216	Physiology Lab	1
CHM 114	Chemistry Laboratory II	1	PHY 209	University Physics Lab III	1
PHY 207	University Physics III	3	EEN 118	Introduction to Programming	3
BIL 150	General Biology	4	CAE 210	Mechanics of Solids	3
BIL 151	General Biology Lab	1	BME 310	Mathematical Analysis in BME	3
EEN 201	Electrical Circuit Theory	3	CHM 201	Organic Chemistry I (Lecture)	3
			CHM 205	Organic Chemistry Laboratory I	1
	Total	18		Total	18

Junior Year:					
ECE2031	Circuits and control	6	BMB 258	Introduction to Biochemistry &	3
	(Equivalent of EEN 307)			Molecular Biology	
STA1010	Statistical Methods for Science	6	CHM 202	Organic Chemistry II (Lecture)	3
	(Equivalent of IEN 311)				
MTE2548	Biomaterials I	6	CHM 206	Organic Chemistry Laboratory II	1
	(Equivalent of BME335)				
	People and Society Elective*	6	BME 375	Biomechanics	3
	Humanities and Arts Elective*	6	BME 401	Senior Project I	1
				Humanities and Arts Elective	3
			EEN 204	Electrical Circuits Lab	1
			BME 311	Matlab for Biomedical Engineers	1
	UM Equivalent Total	15		Total	16

Senior Ye	Senior Year:					
BME 402	Senior Project II	2	BME 403	Senior Project III	3	
BME 440	Biomedical Measurements	4	BME 480	Biomedical Instrumentation	3	
BME 570	Intro. to Biosignal Processing	3	BME 560	Biomedical Transport Phenomena	3	
	Technical Elective	3		Technical Elective	3	
	Advanced PS/HA Elective	3		Technical Elective	1	
BME 330	Foundations of Medical Imaging	3		Advanced PS/HA Elective	3	
	Total			Total	16	

<sup>\*</sup>To be selected from approved lists